

Art Unit: 2835

means for transporting liquid coupled to the inlet and the outlet; and

wherein cooled liquid from the self-contained heat exchange unit enters the heat transfer unit housing at the inlet and heated liquid exits the heat transfer unit housing at the outlet.

115. The liquid cooling system in claim 114 for cooling heat generating components in an electronic system.

116. The liquid cooling system of claim 115 wherein the heat transfer units further comprise:

a contact side coupled to the housing for forming a cavity for conveying liquid and thermally coupled to one or more heat-generating components, the contact side capable of transporting heat from the heat generating components to the liquid thereby producing heated liquid which rises in the cavity.

117. The liquid cooling system in claim 100 wherein the input cavity is positioned above the dissipater and the output cavity is positioned below the dissipater.

118. A liquid cooling system as set forth in claim ~~53~~ ¹⁰⁰ wherein the liquid coolant is a propylene glycol base.

119. A method of cooling heat generating components in an electronic system having a self-contained heat exchange unit installable as a single unit within the electronic system, the self-contained heat exchange unit including an input cavity for receiving heated liquid and distributing the heated liquid to a dissipater which cools the heated liquid and an output cavity for receiving the cooled liquid from the dissipater and transporting the cooled liquid to the electronic system, and wherein the input cavity, the dissipater and the output cavity are disposed to form the self-contained heat exchange unit, and further having one or more heat transfer units coupled to the heat generating components for receiving cooled liquid from the heat exchange